2 2 MAR 1967

25X1A2g

████44117/67

Copy _3_ of 12 Copies

MEMORANDUM FOR: Director of Special Activities

SUBJECT: Phoenix Survivability Program:
Preparation for Operational Use

    1. From discussions of the Phoenix Digital Computer Survivability Program with representatives of OSA/Intelligence, OSA/IDEALIST, and OSA/Automation it has been agreed that interpretation of results and maintaining the program on a current status will require very close technical monitoring and active support by all involved. The group has requested that OSI define critical areas of the program and suggest how they can best be handled.

    2. The Phoenix Program has been designed for use by OSA/IDEALIST in mission planning to evaluate survivability in known fighter environments. When the program was initiated, OSA/Automation was charged with the contract administration, funding, and computer programming; and OSI/DSD was assigned the responsibility for technical guidance and for derivation of the critical inputs for developing the computer air defense model. The program is now approaching completion.

    3. The personnel provided by OSA to assist IDEALIST with inputting mission routes and interpreting the computer results may well be the key to successful operation of the program as a planning aid.

        a. Due to the complex and technical nature of the inner make-up of the Phoenix Program, OSI suggests that at least one of this group have a technical degree, preferably B.S. in physics, electronics, or related field, and some experience in the GCI/fighter weapons system area.

        b. Technical support from OSA/Automation or OCS will be required to keep the program operable
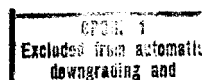
25X1A2g

HANDLE VIA ████ CONTROL SYSTEM

PROJECT IDEALIST

SUBJECT: Phoenix Survivability Program: Preparation for
Operational Use

and to modify it to include new reconnaissance
vehicles and new equipments in the air defense
order-of-battle.

c.   Updating the air and radar order-of-
battle to keep the program current will require
a constant effort by OSA. Essentially all of
the data required is now being collected, but
the flow into the Agency is not sufficiently
current. At the earliest possible time, a
maximum effort should be made by OSA to speed
up the flow of order-of-battle information from
all sources, i.e., NSA, NPIC, DIA, and the
various Far Eastern field stations. This data
could then be collated by OSA/Intelligence and
made available for inputting into the program
in the most expeditious manner.

4.   OSI will continue to support the Phoenix Program
to the fullest. All of the following permanent and semi-
permanent inputs will be derived and inputted by OSI:

a.   EW and GCI radar characteristics and
performance

b.   GCI vectoring performance and logic

c.   Fighter aircraft performance data

d.   Weapons system data

e.   Fighter tactics data

f.   Air defense associated logic particular
to a given geographical area

Along with this responsibility, OSI will continue post-
flight mission analysis in order to keep the computer model
current with observed air defense procedures, tactics, and
equipments.

5.   OSI is cognizant of the transition stage which
will take place once the Phoenix Program is in-house and
ready for use. We are prepared to assist OSA in any way

SUBJECT: Phoenix Survivability Program: Preparation for
Operational Use

possible during this time. If we can be of any further
assistance in this, please call upon us.

25X1A9a

DONALD F. CHAMBERLAIN
Director of Scientific Intelligence

Distribution:
Cy #1 & 2 - Addressee
3 - Ch/IDEALIST
4 - OSA/Automation
25X1A9a   5 - OSA/Intelligence
6 -   /OSA
7 & 8 - D/OSI
9 & 10 - Ch/DSD/OSI
11 - Ch/ACMB/DSD/OSI
12 - Ch/ADB/DSD/OSI

OSI/DSD/ACMB: :ecw/7621 (20 March 1967)
25X1A9a

25X1A2g